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(71) Applicant: **BITAMIN KENKYUSHO:KK**(72) Inventor: **YAGI KUNIO  
KOJIMA NAKAO  
HAGA NOBUYUKI**

(74) Representative:

**(54) PREPARATION OF LIPOSOME CONTAINING SEALED GENE****(57) Abstract:**

**PURPOSE:** To enable removal of microbial cells with a 0.45μm filter, by adding a polyhydric alcohol at a latter stage of a gene-inclusion process using a reverse- phase evaporation method, thereby efficiently including a DNA in a liposome having a diameter of =450nm.

**CONSTITUTION:** In the production of a gene-including liposome by a reverse- phase evaporation method, a polyhydric alcohol such as glycerol or ethylene glycol is added at the latter stage of the gene-inclusion process. The liposome suspension obtained by the above process is treated with a Nuclepore filter having an average pore size of 400nm to obtain liposomes composed mainly of those having diameter of 100W400nm. The gene to be included by this

process may be a DNA or a recombinant DNA.

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